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| APPLICATION NO.       | FILING I               | DATE                  | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|-----------------------|------------------------|-----------------------|----------------------|---------------------|-----------------|
| 10/539,450 12/23/2005 |                        | Hisashi Narimatsu     | 159-90               | 6812                |                 |
| 23117                 | 7590                   | 08/22/2006            | EXAMINER             |                     |                 |
|                       | 'ANDERHY<br>GLEBE ROAL | E, PC<br>D, 11TH FLOO | RAGHU, GANAPATHIRAM  |                     |                 |
|                       | N, VA 22203            |                       | ART UNIT             | PAPER NUMBER        |                 |
|                       |                        |                       |                      | 1652                |                 |

DATE MAILED: 08/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| Application No.   Application  |  | Annilantin Na           | Ameliaandia      |  |  |  |  |  |
|--|--|-------------------------|------------------|--|--|--|--|--|
| ### Disposition of Claims  ### Office Action Summary    Examiner   Ganapathirama Raghu   1652  | · ·  | Application No.         | Applicant(s)     |  |  |  |  |  |
| Canapathirama Raghu   1692   | Office Action Commons  | 10/539,450              | NARIMATSU ET AL. |  |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of the may be available under the provisions of 37 CFR 1.186(i), no event, however, may a reply be timely filed  # INO period for reply is sacrified above, the maximum statutory period will apply and wat expire SIX (6) MONTHS from the mailing data of this communication.  ## Failute or period will be provided by the Communication of the communication.  ## Failute or period will be provided by the Communication.  ## Failute or period will be provided by the Communication.  ## Failute or period of the Communication of the communication.  ## Responsive to communication(s) filed on 23 December 2005.  ## Responsive to communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  ## Disposition of Claims  ## Claim(s) 1-20 isfare pending in the application.  ## Application Papers  ## Application Papers  ## Application Papers  ## Application Papers  ## Application may be reply including the correction is requirement.  ## Application Papers  ## Application Papers  ## Application papers  ## Application may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  ## Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  ## The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  ## Priority under 35 U.S.C. § 119  ## 12   | Office Action Summary  | Examiner                | Art Unit         |  |  |  |  |  |
| Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.35(a), fine event, however, may a may be tending to the communication of the communication of the provision of the communication of the communication of the provision of the communication |  |                         | l                |  |  |  |  |  |
| WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Excessions of them may be available under the provisions of 37 CFR 1.136(s). In oevent, however, may a reply be timely filed after 50 kg (b) MONTHS from the mailing date of this communication.  - Failure to reply with the fact or excended period for reply with by fattach cause the applicant to become ARANDANDE (38 U.S. C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication.  - Failure to reply with the fact or excended period for reply with by fattach cause the applicant to become ARANDANDE (38 U.S. C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patter than deplanment.  - Service of the communication of the communication of the communication.  - This action is FINAL.  - 2. Dim This action is non-final.  - 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - 4) Claim(s) is/are pending in the application.  - 4a) Of the above claim(s) is/are withdrawn from consideration.  - 5) Claim(s) is/are allowed.  - 6)  |  |                         |                  |  |  |  |  |  |
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| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)   |  |                         |                  |  |  |  |  |  |
|  | 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   | 5) D Notice of Informal |                  |  |  |  |  |  |

## **DETAILED ACTION**

Claims 1-20 are pending in this application.

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I: Claims 1-6, drawn to β1,3-N-acetyl-D-galactosamine transferase with SEQ ID NO: 2 or SEQ ID NO: 4.

Group II: Claims 7-15 and 18-20, drawn to the polynucleotide with SEQ ID NO: 1 or SEQ ID NO: 3, vectors, host cells and the method of making the elected polypeptide of group I.

Group III: Claims 16-17, drawn to an antibody, which binds specifically to the elected polypeptide of group I.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

the following categories:

An international or a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of

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- 1) A product and a process specially adapted for the manufacture of said product or
- 2) A product and process of use of said product; or
- 3) A product, a process specially adapted for the manufacture of said product and a use of said product; or
- 4) A process and an apparatus or means specifically adapted for carrying out the said process; or
- 5) A product, a process specially adapted for the manufacture of said product and an apparatus or means specifically designed for carrying out the said process.
- 37 CFR 1.475(c) states: If an application contains more or less than one of the combination of categories of in an invention set forth in paragraph (b) of this section, unity of invention might not be present.
- 37 CFR 1.475 (d) also states: If multiple products, processes of manufacture or uses are claimed, the first invention of the category first mentioned in the claims of the application and the first recited invention of each other categories related thereto will be considered as the main invention in the claims, see PCT Article 17(3)(a) 1.47(c).
- 37 CFR 1.475(e) further states; the determination whether a group of invention is so linked as to form a single inventive concept shall be without regard to whether the inventions are claimed in separate claims or as alternative within a single claim.

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In the instant application the products of groups I, II and III differ substantially from one another to the extent that they have a different structure and function. The polypeptides of group I have catalytic activities and encoded by the polynucleotides of group II, whereas the antibody of group III are mainly used for binding to the polypeptides of group I, lack catalytic/enzymatic activity. The two products can be used exclusive of each other such that they do not share unity of invention under 37 CFR 1.475. Furthermore, Conklin et al., (WO 01/44479 A1, date of publication, 06/21/2001) disclose the isolation of Beta 1,3 galactosyl transferase polypeptides, encoding polynucleotides and antibodies.

Therefore the technical features linking the inventions of Group I-III does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

Accordingly, Groups I-III are not so linked by the same or a corresponding special technical feature as to form a single inventive concept.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

## Election of Sequence

Group I and II contains claims directed to the following patentably distinct species of the claimed invention: the various sequences recited in the claims (polypeptide sequences with SEQ ID NO: 2 or SEQ ID NO: 4, and polynucleotide sequences with SEQ ID NO: 1 or SEQ ID NO: 3) have specific activities. Furthermore these sequences have different structure and function.

Art Unit: 1652

Applicant is required under 35 U.S.C. 121 and 372 to elect a single appropriate disclosed species i.e., (a single polynucleotide SEQ ID NO encoding the corresponding polypeptide; applicants need to clearly identify the polynucleotide and corresponding polypeptide SEQ ID NOs.) associated with the respective group for prosecution on the merits to which the claims are restricted. Note that this is a restriction requirement to sequence and NOT a species election.

MPEP 803.04 states: Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions with the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141et seq. It has been determined that 1(ONE) sequence constitutes a reasonable number for examination purposes under the present conditions. At present the huge number of submissions of claims directed to various sequences, such as nucleic acids or polypeptides, is so large that the election of sequence of this type is now deemed to be practically appropriate so as to not overwhelm the examination and search processes for such claims. Examination will be restricted to only the elected group and the elected amino acid /nucleotide sequence.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ganapathirama Raghu whose telephone number is 571-272-4533. The examiner can normally be reached on 8 am - 5.00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300 for regular communications and for After Final

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communications. Any inquiry of a general nature or relating to the status of the application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ganapathirama Raghu, Ph.D. Patent Examiner Art Unit 1652

Aug. 14, 2006.

PRIM. 37 EXAMINER